

Patent Abstracts of Japan

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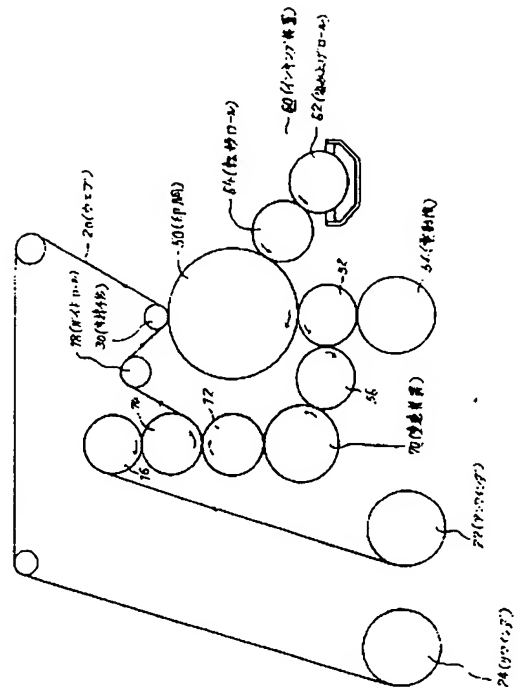
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TITLE : PRINTING DEVICE



ABSTRACT : PURPOSE: To print over an arbitrary length without replacing a form cylinder, by providing a velocity controlling means for varying the feeding velocity of a web and the circumferential velocity of a printing means at predetermined change rates and a contact means having an appropriate radius of curvature and bringing the web into contact with the printing means.

CONSTITUTION: A printing plate is fitted over substantially the entire circumference of a form cylinder 50, and an appropriate quantity of an ink is supplied thereto by an inking device 60. The form cylinder 50 is driven by a motor 54 through a gear 52. The rotation of the gear 52 is transmitted also to a speed change gear 70, the output of which is transmitted to a web-driving roll 74 through a gear 72. Therefore, the feeding velocity of a web 20 paid out from an unwinder 22 is controlled to a predetermined ratio to the circumferential velocity of the form cylinder 50. The web 20 is fed past a guide roll 78 while being pulled by a rewinder 24, and is brought into contact with the form cylinder 50 through a contact means 30. When a contact part of the means 30 has an appropriate radius of curvature, it is possible to obtain an enlarging factor 1.13 and a reducing factor 0.89 thereby covering all repeat lengths by 2-5 kinds of form cylinders.

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